

Title (en)

FUEL INJECTOR COMPRISING A PRESSURE-COMPENSATED CONTROL VALVE

Title (de)

KRAFTSTOFFINJEKTOR MIT DRUCKAUSGEGLICHENEM STEUERVERTIL

Title (fr)

INJECTEUR DE CARBURANT COMPORTANT UNE SOUPAPE DE COMMANDE À COMPENSATION DE PRESSION

Publication

EP 2021617 B1 20111123 (DE)

Application

EP 07727028 A 20070319

Priority

- EP 2007052550 W 20070319
- DE 102006021736 A 20060510

Abstract (en)

[origin: US8371516B2] In a fuel injector for injecting fuel into a combustion chamber of an internal combustion engine, an injection valve member for opening and closing at least one injection opening is triggered by a control valve embodied as a magnet valve. On the armature of the magnet valve, a sealing face is embodied that for closing the control valve is positionable into a valve seat. The armature of the magnet valve is movable, without armature guidance, between an upper and a lower stroke stop. Because the sealing face, which for closing the control valve is positionable into the valve seat, is embodied on the armature, an additional closing element of the kind provided in the prior art can be dispensed with.

IPC 8 full level

F02M 47/02 (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)

F02M 47/027 (2013.01 - EP US); **F02M 63/0015** (2013.01 - EP US); **F02M 63/0031** (2013.01 - EP US); **F02M 63/008** (2013.01 - EP US); **F02M 2547/003** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2009159727 A1 20090625; US 8371516 B2 20130212; AT E534815 T1 20111215; CN 101490405 A 20090722; CN 101490405 B 20120418; DE 102006021736 A1 20071115; EP 2021617 A1 20090211; EP 2021617 B1 20111123; JP 2009536288 A 20091008; JP 2012137097 A 20120719; JP 5054762 B2 20121024; JP 5783947 B2 20150924; RU 2008148287 A 20100620; RU 2451821 C2 20120527; WO 2007128612 A1 20071115

DOCDB simple family (application)

US 30001607 A 20070319; AT 07727028 T 20070319; CN 200780026491 A 20070319; DE 102006021736 A 20060510; EP 07727028 A 20070319; EP 2007052550 W 20070319; JP 2009508273 A 20070319; JP 2012093416 A 20120416; RU 2008148287 A 20070319